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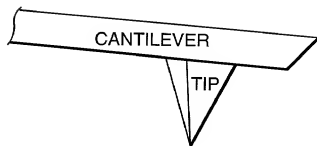


FIG. 1A

ELECTROPHORETICALLY
DEPOSIT CATALYST

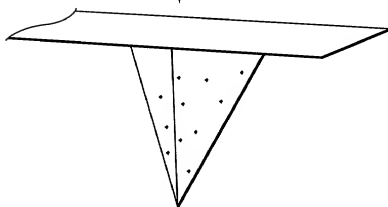


FIG. 1B

CVD GROWTH

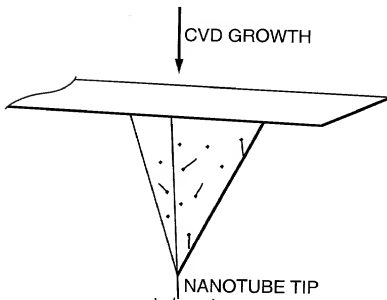


FIG. 1C

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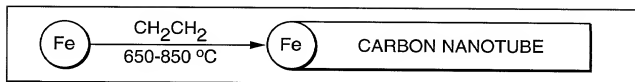


FIG. 2A

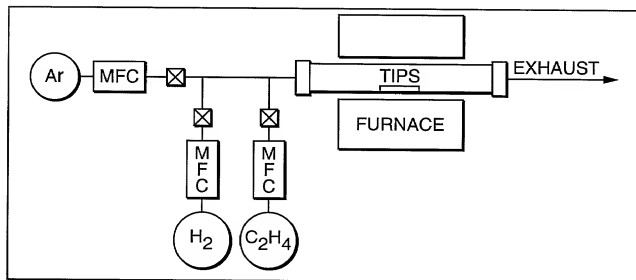
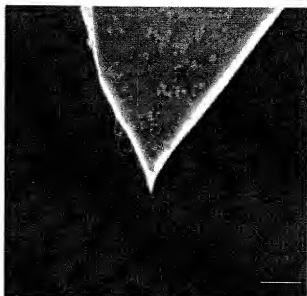
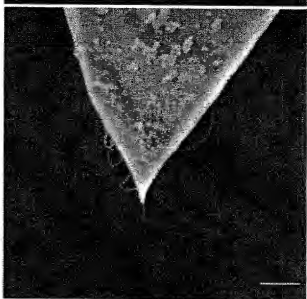


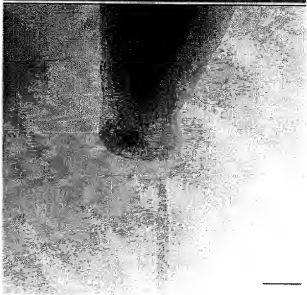
FIG. 2B



— FIG. 3A



— FIG. 3B



— FIG. 3C

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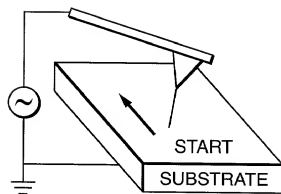


FIG. 4A

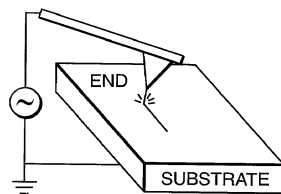


FIG. 4B

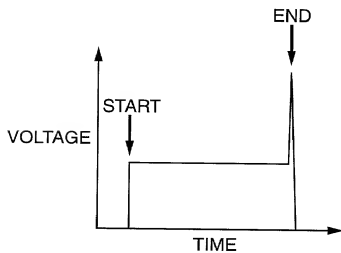


FIG. 4C

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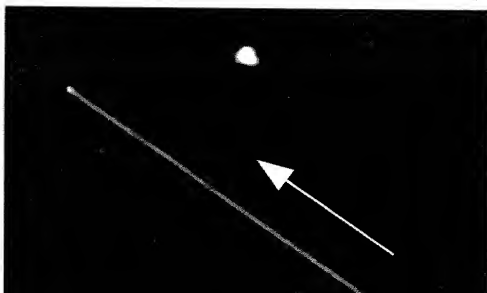


FIG. 5A

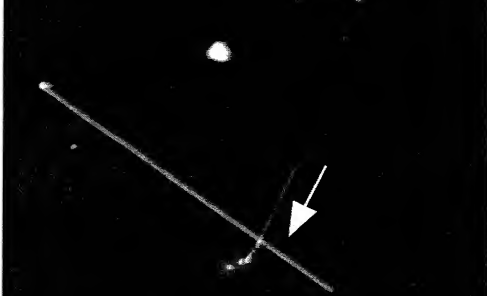


FIG. 5B

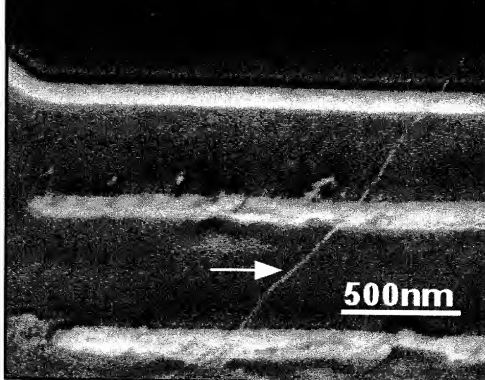


FIG. 5C

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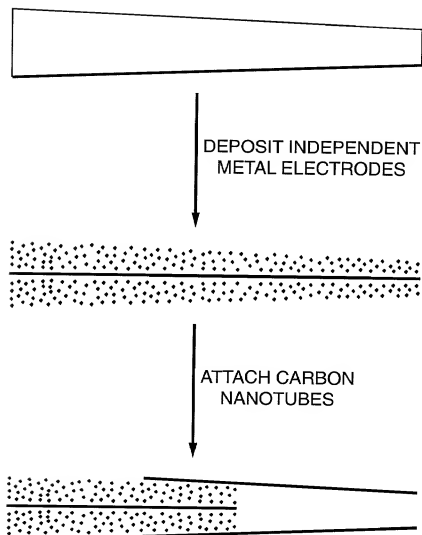


FIG. 6A

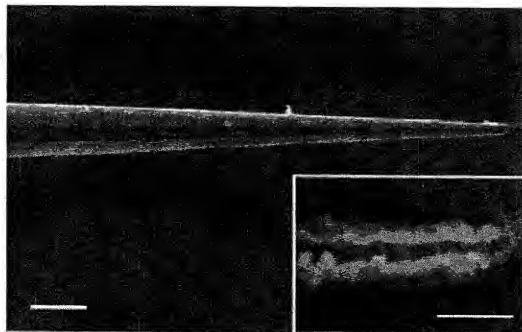


FIG. 6B

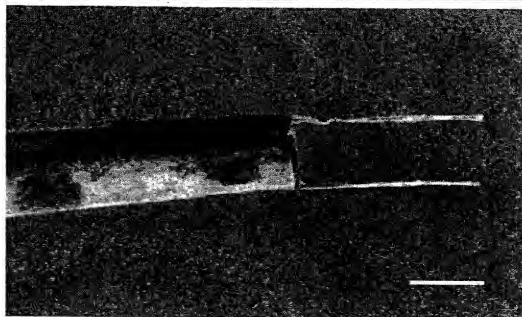
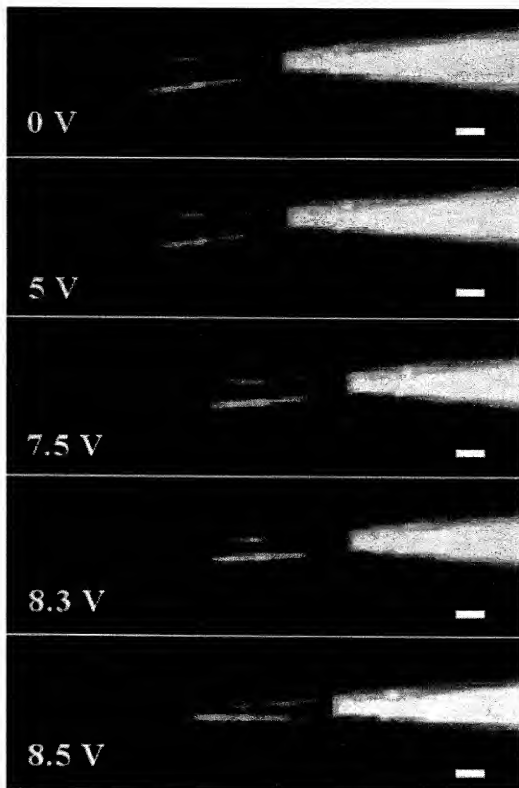


FIG. 6C

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**FIG. 7A****FIG. 7B****FIG. 7C****FIG. 7D****FIG. 7E**

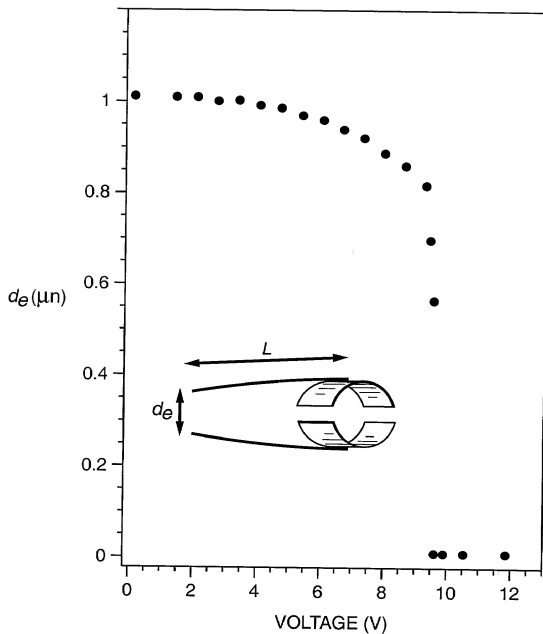


FIG. 7F



FIG. 8A



FIG. 8B

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FIG. 8C



FIG. 8E

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FIG. 9A

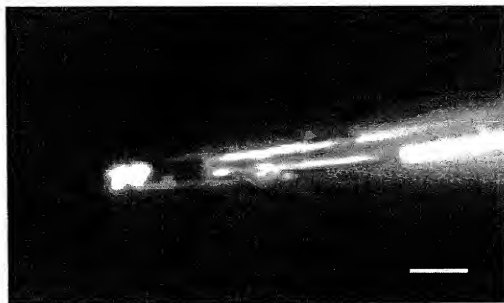


FIG. 9B



FIG. 9C

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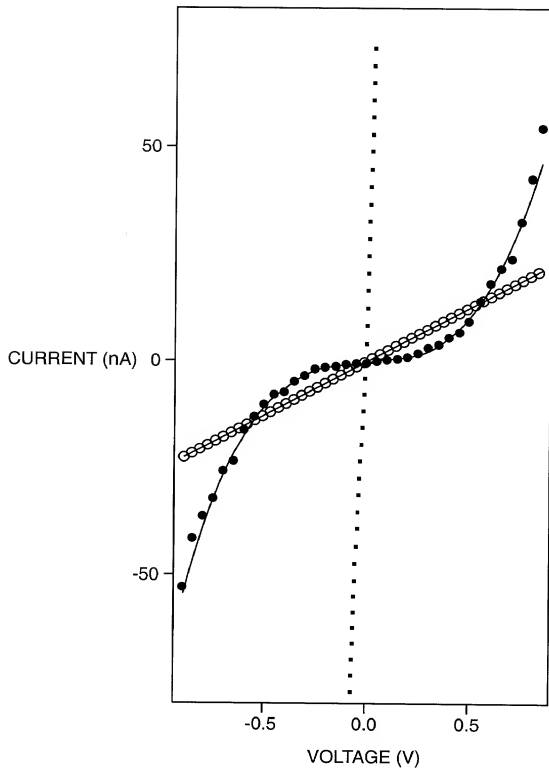
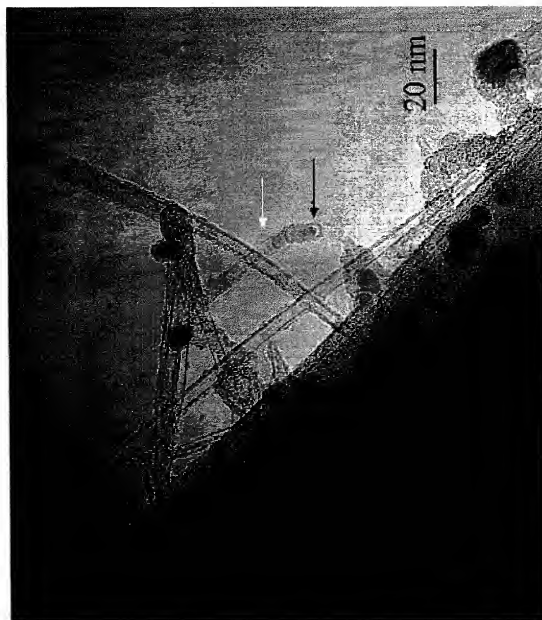


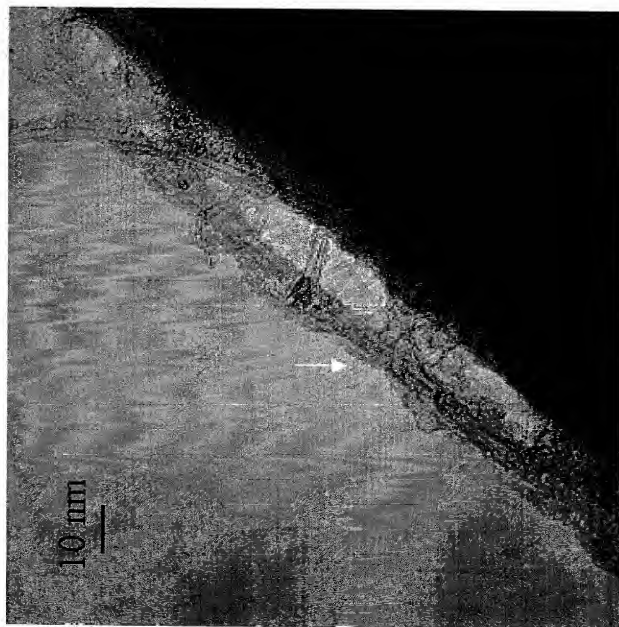
FIG. 9D



Catalyst: FeOx 6L (black arrow) Majority of catalyst size: 4-6nm
Carbon Source: C₂H₄ SWNT (white arrow) Majority of SWNT size: 4nm

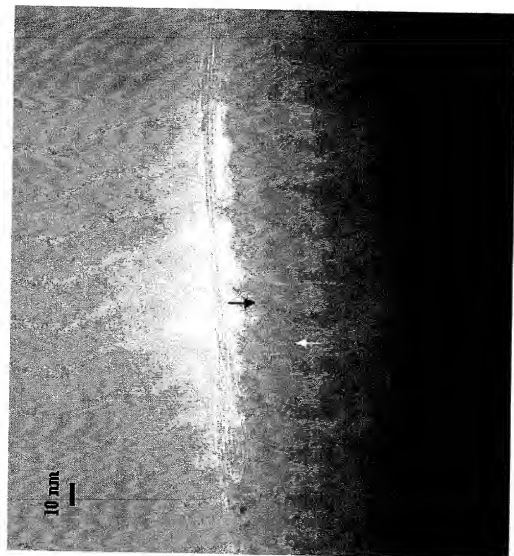
FIG. 10

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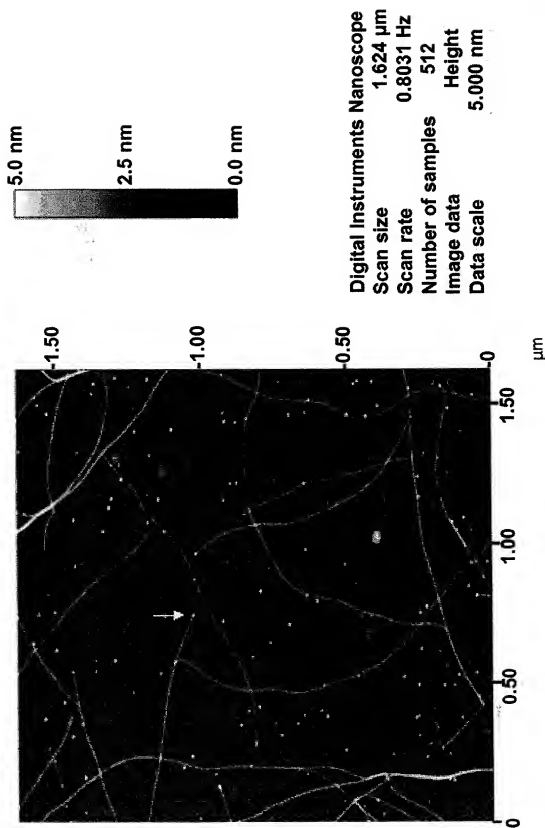
Catalyst: FeOx 2L
Carbon source: CO
0.8 nm SWNT (white arrow)

FIG. 11



Catalyst: FeOx 2L (black arrow)
Carbon source: CO, SWNT (white arrow)
Majority of catalyst size: 1.5-3.5 nm
Majority of nanotube size: 1.3-2.3 nm

FIG. 12



Catalyst: FeOx 6L (white arrow)
Carbon source: C_2H_4 , SWNT (black arrow)

FIG. 13

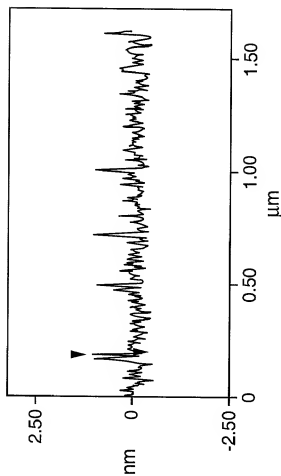


FIG. 14A

L	15.862 nm
RMS	0.447 nm
lc	DC
Ra(lc)	0.129 nm
Rmax	0.483 nm
Rz	0.375 nm
Rz Cnt	4
RADIUS	54.556 nm
SIGMA	0.169 nm



FIG. 14B

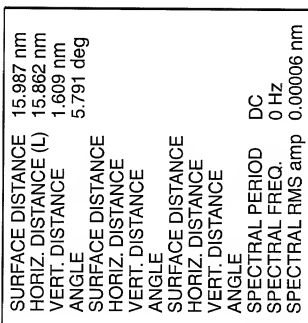


FIG. 14C

SURFACE DISTANCE	15.987 nm
HORIZ. DISTANCE (L)	15.862 nm
VERT. DISTANCE	1.609 nm
ANGLE	5.791 deg
SURFACE DISTANCE	
HORIZ. DISTANCE	
VERT. DISTANCE	
ANGLE	
SURFACE DISTANCE	
HORIZ. DISTANCE	
VERT. DISTANCE	
ANGLE	
SPECTRAL PERIOD	DC
SPECTRAL FREQ.	0 Hz
SPECTRAL RMS amp	0.00006 nm

